

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. Contract ID Code Firm-Fixed-Price		Page 1 Of 8	
2. Amendment/Modification No. P00001		3. Effective Date 2001APR16		4. Requisition/Purchase Req No. SEE SCHEDULE		5. Project No. (If applicable)	
6. Issued By TACOM AMSTA-CM-CLGB AL TRACIAK (810)574-7869 WARREN, MICHIGAN 48397-5000 HTTP://CONTRACTING.TACOM.ARMY.MIL EMAIL: TRACIAKA@TACOM.ARMY.MIL		Code W56HZV		7. Administered By (If other than Item 6) DCM DAYTON AREA C, BUILDING 30 1725 VAN PATTON AVENUE WRIGHT PATTERSON AFB, OH 45433-5302		Code S3605A	
				SCD C PAS NONE ADP PT SC1012			
8. Name And Address Of Contractor (No., Street, City, County, State and Zip Code) DYNASIM RESEARCH LTD 1776 MENTOR AVENUE CINCINNATI, OH 45212-3597 TYPE BUSINESS: Other Small Business Performing in U.S.				<input type="checkbox"/>		9A. Amendment Of Solicitation No.	
				<input type="checkbox"/>		9B. Dated (See Item 11)	
				<input checked="" type="checkbox"/>		10A. Modification Of Contract/Order No. DAAE07-00-C-L026	
				<input type="checkbox"/>		10B. Dated (See Item 13) 1999DEC23	
Code 1L8R4		Facility Code					
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS							
<input type="checkbox"/> The above numbered solicitation is amended as set forth in item 14. The hour and date specified for receipt of Offers <input type="checkbox"/> is extended, <input type="checkbox"/> is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended by one of the following methods: (a) By completing items 8 and 15, and returning _____ copies of the amendments: (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.							
12. Accounting And Appropriation Data (If required) ACRN: AB NET INCREASE: \$49,691.00							
13. THIS ITEM ONLY APPLIES TO MODIFICATIONS OF CONTRACTS/ORDERS							
KIND MOD CODE: G It Modifies The Contract/Order No. As Described In Item 14.							
<input type="checkbox"/>		A. This Change Order is Issued Pursuant To: The Contract/Order No. In Item 10A.				The Changes Set Forth In Item 14 Are Made In	
<input type="checkbox"/>		B. The Above Numbered Contract/Order Is Modified To Reflect The Administrative Changes (such as changes in paying office, appropriation data, etc.) Set Forth In Item 14, Pursuant To The Authority of FAR 43.103(b).					
<input checked="" type="checkbox"/>		C. This Supplemental Agreement Is Entered Into Pursuant To Authority Of: Mutual Agreement of the Parties					
<input type="checkbox"/>		D. Other (Specify type of modification and authority)					
E. IMPORTANT: Contractor <input type="checkbox"/> is not, <input checked="" type="checkbox"/> is required to sign this document and return _____ copies to the Issuing Office.							
14. Description Of Amendment/Modification (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)							
SEE SECOND PAGE FOR DESCRIPTION							
Contract Expiration Date: 2001AUG10							
Except as provided herein, all terms and conditions of the document referenced in item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.							
15A. Name And Title Of Signer (Type or print)				16A. Name And Title Of Contracting Officer (Type or print) WYMAN E. YOUNG II YOUNGE@TACOM.ARMY.MIL (810)574-8093			
15B. Contractor/Offeror _____ (Signature of person authorized to sign)		15C. Date Signed		16B. United States Of America By _____ (Signature of Contracting Officer)		16C. Date Signed	
NSN 7540-01-152-8070 PREVIOUS EDITIONS UNUSABLE				30-105-02		STANDARD FORM 30 (REV. 10-83) Prescribed by GSA FAR (48 CFR) 53.243	

CONTINUATION SHEET	Reference No. of Document Being Continued PIIN/SIIN DAAE07-00-C-L026MOD/AMD P00001	Page 2 of 8
Name of Offeror or Contractor: DYNASIM RESEARCH LTD		

SECTION A - SUPPLEMENTAL INFORMATION

Program: Cynlinder Torque Estimation in Heavy Duty Diesel Engines

Purpose: Exercise of Phase I Option

Previous Contract Amount: \$ 69,631

Amount this Action: \$ 49,691

Total Contract Amount: \$119,322

1. This Modification P00001 is a Supplemental Agreement to contract DAAE07-00-C-L026 to exercise the Phase I Option for CLIN 0002, at the amount shown in section B.
2. By execution of this bilateral modification, the following changes are incorporated into the contract:
 - a. Sub-CLINs 0002AA and 0002AB are established under Option CLIN 0002.
 - b. Provision B.2 is added to address payments under the Phase I Option.
 - c. Provision C.1.2 of the Scope of Work is revised to identify the specific tasks of the Phase I Option.
 - d. Provision F.1.1 of "Delivery of Data" is revised to reflect updated e-mail addresses.
 - e. Provision F.4 "Option-Performance" is revised to reflect the 4-month period of option performance, as established by this modification.
 - f. Accounting and appropriation data for the funds obligated by this modification are added to Section G.
2. As a result of this Modification, the Total Contract Amount is increased by \$49,691, from \$69,631 to \$119,322.
3. Except as provided for in this Modification all terms and conditions of Contract DAAE07-00-C-L026, as previously modified, remain unchanged and in full force and effect.

*** END OF NARRATIVE A 001 ***

Name of Offeror or Contractor: DYNASIM RESEARCH LTD

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0002	<p>SECTION B - SUPPLIES OR SERVICES AND PRICES/COSTS</p> <p><u>Supplies or Services and Prices/Costs</u></p> <p><u>SERVICES LINE ITEM</u></p> <p>SECURITY CLASS: Unclassified</p> <p>Contractor shall furnish all the supplies and services to accomplish the tasks specified in Section C, Scope of Work paragraph C.1.2 "PHASE I OPTION". The total amount for the Option effort shall be \$49,691.00.</p> <p>(End of narrative B001)</p>				
0002AA	<p><u>SERVICES LINE ITEM</u></p> <p>NOUN: PHASE I OPTION SECURITY CLASS: Unclassified PRON: E112C162EH PRON AMD: 01 ACRN: AB AMS CD: 665502M4055DD</p> <p>Supplies/Services described in Contractor's Progress Report, Data Item A001 (see Paragraph B.2), submitted following 2nd month of Phase I Option effort, along with a DD Form 250.</p> <p>(End of narrative B001)</p> <p><u>Inspection and Acceptance</u> INSPECTION: Destination ACCEPTANCE: Destination</p> <p><u>Deliveries or Performance</u> DLVR SCH PERF COMPL <u>REL CD</u> <u>QUANTITY</u> <u>DATE</u> 001 0 SEE SECTION F</p> <p>\$ 24,845.00</p>				\$ 24,845.00

Name of Offeror or Contractor: DYNASIM RESEARCH LTD

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0002AB	<div>SERVICES LINE ITEM</div> <div>NOUN: PHASE I OPTION SECURITY CLASS: Unclassified PRON: E112C162EH PRON AMD: 01 ACRN: AB AMS CD: 665502M4055DD</div> <div>Supplies/Services described in the Final Report (Data Item A002) (see Paragraph B.2), submitted at the end of Phase I Option effort, along with a DD Form 250.</div> <div>(End of narrative B001)</div> <div>Inspection and Acceptance INSPECTION: Destination ACCEPTANCE: Destination</div> <div>Deliveries or Performance DLVR SCH PERFORM COMPL REL CD QUANTITY DATE 001 0 SEE SECTION F</div> <div>\$ 24,846.00</div>				\$ 24,846.00

CONTINUATION SHEET	Reference No. of Document Being Continued PIIN/SIIN DAAE07-00-C-L026 MOD/AMD P00001	Page 5 of 8
Name of Offeror or Contractor: DYNASIM RESEARCH LTD		

B.1 The payments under this contract are to be in accordance with the sub-CLINs. The sub-CLINs (0001AA, 0001AB, and 0001AC)are set up to pay the Contractor at the 2nd, 4th, and 6th month after contract award. The payment is contingent upon TACOM's receiving and approving a DD Form 250 for the designated report in each sub-CLIN. The approved DD Form 250 will be sent to the payment office, so the Contractor can be paid.

B.2* Payments under the Phase I Option are to be in accordance with sub-CLINs 0002AA and 0002AB, which are set up to pay the Contractor at the 2nd and 4th month after option exercise. Payments are contingent upon TACOM's receipt and approval of the DD Form 250 for the designated report in each sub-CLIN. Approved DD Form 250s will be sent to the payment office, so the Contractor can be paid.

* Added by Modification P00001.

*** END OF NARRATIVE B 001 ***

CONTINUATION SHEET	Reference No. of Document Being Continued PIIN/SIIN DAAE07-00-C-L026 MOD/AMD P00001	Page 6 of 8
Name of Offeror or Contractor: DYNASIM RESEARCH LTD		

SECTION C - DESCRIPTION/SPECIFICATIONS/WORK STATEMENT

C.1 SCOPE OF WORK

C.1.1 PHASE I: The contractor, acting as an independent contractor and not as an agent of the Government, shall provide the necessary personnel, facilities, materials and services to perform the effort described in contractor's proposal dated August 9, 1999. Small Business Innovation Research Program (SBIR), Topic Number A99-086, Proposal Title: Cylinder Torque Estimation in Heavy Duty Diesel Engines, paragraphs d.2 (pages 8-10), e.1, and e.2 (pages 11-14).

C.1.2* PHASE I OPTION: The contractor, acting as an independent contractor and not as an agent of the Government, shall provide the necessary personnel, facilities, materials and services to complete the effort described below.

C.1.2.1* Improve the digital torsional measurement system. The contractor will reformulate the algorithms to accommodate both steady state and transient conditions. The Graphical User Interface (GUI) will be reformulated to acquire and process transient data through an intuitive interface. The contractor will convert the digital measurement GUI from MATLAB 5.3 to a MATLAB 6 format. As part of this effort, the contractor will also propose ways to improve the reliability and performance of the front end signal conditioning.

C.1.2.2* Select an engine for the diagnostics work.

C.1.2.3* Select a test cell for the diagnostics work (the test cell shall be compatible with the engine selected).

C.1.2.4* Determine engine instrumentation requirements. The contractor will determine which combination of engine and cylinder pressure transducer will work best. The contractor will also determine whether to purchase or make instrumentation to measure signals such as cylinder pressure and linear vibration.

* Revised/added by Modification P00001.

C.2 DELIVERABLES

C.2.1 The contractor shall submit progress reports on all work completed to date, on a bi-monthly basis for a total of two (2) progress reports in Phase I in accordance with DD Form 1423 (A001). The contractor shall submit one progress report on all work completed to date, at the end of the second month of the Phase I Option, if exercised, in accordance with DD Form 1423 (A001).

C.2.2 The contractor shall prepare and submit to the Government one (1) Final Report at the end of Phase I and one (1) Final Report at the end of the Phase I Option (if exercised), each addressing all of the technical information in C.1 and in accordance with DD Form 1423 (A002).

C.2.3 The contractor shall ship to the COTR at the address specified in F.1.2, all equipment purchased for use in this contract, at the end of Phase I, or at the end of the Option period (if exercised).

C.3 MEETINGS

C.3.1 The contractor shall initiate and coordinate a kick-off meeting by telephone with the COTR. The meeting shall be held no later than one (1) month after contract award.

C.3.2 The contractor shall plan and conduct Initial and Final Review meetings at TACOM within the period of performance for the Phase I Option, if exercised.

*** END OF NARRATIVE C 001 ***

CONTINUATION SHEET	Reference No. of Document Being Continued PIIN/SIIN DAAE07-00-C-L026 MOD/AMD P00001	Page 7 of 8
Name of Offeror or Contractor: DYNASIM RESEARCH LTD		

SECTION F - DELIVERIES OR PERFORMANCE

DELIVERIES OR PERFORMANCE

F.1 Delivery of Data

F.1.1* The contractor is encouraged to submit all reports electronically to the extent practible in accordance with the Contract Data Requirements List (CDRL) (DD Form 1423), to the following e-mail addresses:

makarp@tacom.army.mil
sinclair@tacom.army.mil

* Changed by Modification P00001.

F.1.2 All data deliverable under this contract that cannot be submitted electronically, shall be delivered in accordance with the Contract Data Requirements List (CDRL) DD Form 1423, and shall be delivered FOB Destination to the following address:

U.S. Tank-Automotive and Armaments Command
ATTN: AMSTA-TR-N/MS 02, Mr. Paul Makar
Warren, Michigan 48397-5000

F.2 Delivery of Equipment

F.2.1 The contractor shall ship all equipment purchased for use in this contract, FOB Destination to the address in F.1.2. The equipment shall be shipped at the end of Phase I, or at the end of the Phase I Option (if exercised).

F.3 Performance

F.3.1 The period of performance of the Contract shall be six (6) months from date of award, including submission of final technical report and final briefing.

F.3.2 The Contractor shall submit the Draft Technical Report five (5) months and one (1) week after contract award. The Government will review the draft technical report and return it to the Contractor within seven (7) days of receipt. The Contractor shall submit the Final Technical Report within fourteen (14) days after receipt of draft comments/approval. Acceptance of final report will constitute completion.

F.4 Option-Performance

F.4.1* If the option is exercised by modification to this contract, the period of performance for the option shall be four (4) months from date of option exercise.

* Changed by Modification P00001.

*** END OF NARRATIVE F 001 ***

SECTION G - CONTRACT ADMINISTRATION DATA

LINE	PRON/		OBLG STAT/			INCREASE/DECREASE		CUMULATIVE
<u>ITEM</u>	<u>AMS CD</u>	<u>ACRN</u>	<u>JOB ORD NO</u>		<u>PRIOR AMOUNT</u>	<u>AMOUNT</u>		<u>AMOUNT</u>
0002AA	E112C162EH	AB	1	\$	0.00	\$	24,845.00	\$ 24,845.00
	665502M4055DD		12C162					
0002AB	E112C162EH	AB	1	\$	0.00	\$	24,846.00	\$ 24,846.00
	665502M4055DD		12C162					
					NET CHANGE	\$	49,691.00	

SERVICE	NET CHANGE				ACCOUNTING		INCREASE/DECREASE
<u>NAME</u>	<u>BY ACRN</u>	<u>ACCOUNTING CLASSIFICATION</u>			<u>STATION</u>		<u>AMOUNT</u>
Army	AB	21 12040000016D7675P665502255Y	S20113		W56HZV	\$	49,691.00
					NET CHANGE	\$	49,691.00

		<u>PRIOR AMOUNT</u>		<u>INCREASE/DECREASE</u>		<u>CUMULATIVE</u>
		<u>OF AWARD</u>		<u>AMOUNT</u>		<u>OBLIG AMT</u>
NET CHANGE FOR AWARD:	\$	69,631.00	\$	49,691.00	\$	119,322.00